Thomas Cartier-Michaud

Fellow in TE-MPE-PE
For 2 years from 01/02/19 to 31/01/21
Supervisor: Andrea Apollonio
Office: 30-5-025

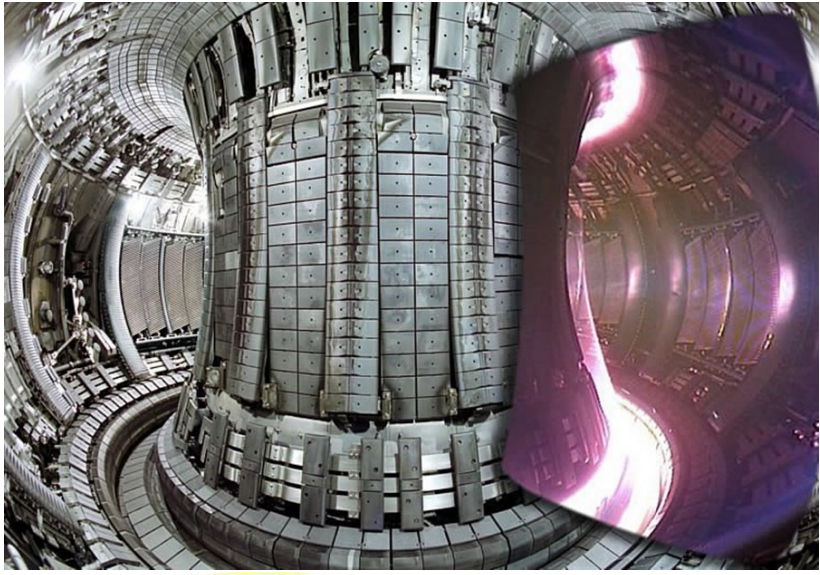
I come from…

- Villeneuve-sur-Lot:
  Known for “Pruneaux d’Agen”

- Engineering degree in Applied Mathematics:
  INSA Toulouse
  one semester in UT at Austin

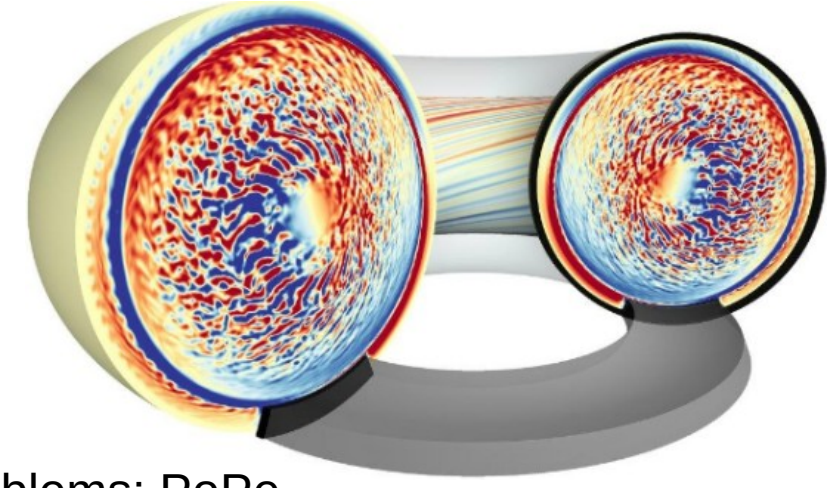
- PhD in Plasma Physics:
  CEA Cadarache

Earlier projects
(Phd and post-doc)



- Kinetic and fluid simulations of fusion plasma

- Turbulent transport:
  multi-scale in space (2D to 4D) and time

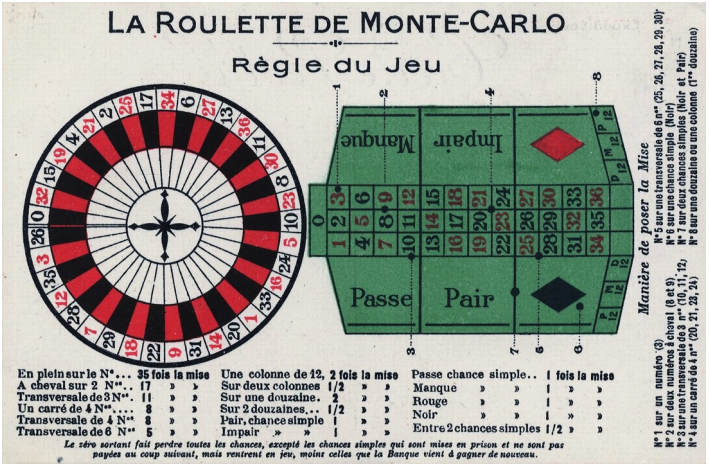


- High Performance Computing:
  100 – 10 000 cores
  Fortran MPI/OpenMP Matlab Python

- Code verification and model reduction for PDE problems: PoPe
  Recovering **actual** equations of a code from outputs of a simulations

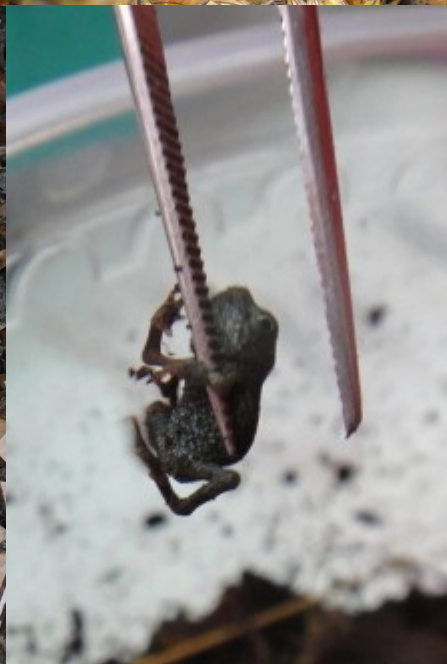
Projects @ CERN

- Availability simulation software for LHC developer / user of Availsim software
  Monte Carlo simulations
- Data mining / ML on AFT data
- Quench simulations
- ...



HiLumi
HL-LHC PROJECT

LIGHT NO FIRES
Molesworth Station



Thank you for your attention :-D